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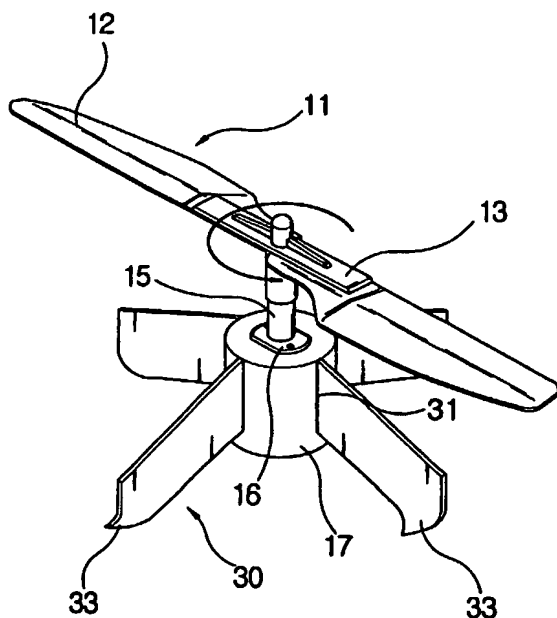
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(54) Title: MICRO AERIAL VEHICLE



(57) **Abstract:** The purpose of this invention is to provide an ultra-miniature aircraft which is able to perform 'Vertical Take-off and Landing (VTOL)' and maintaining altitude when the vehicle is moving or when the horizontal velocity of a vehicle is at 0 by getting life only from a single rotor's rotation, and without using separate stabilizers such as a tail-rotor or a gyro. To fulfill the above purpose, this invention comprises: several blades in air-foil shape that are places in calculated angle and space; hubs that connect the blade to with a body of a vehicle; a rotor which gives lifting force with its spin; a spin-able axle which its vertical hem is bound to the hubs; a rotor drive that is needed to spin the rotor; a vehicle body that is placed right under the rotor in order to fly from the lift that is obtained by revolutions of the rotor; fixed-wings that are placed in certain angle and space around the outside of the vehicle body in order to reduce a reaction torque, which affects the body to turn the opposite direction of the rotor, from the rotor's movement; and a reaction-torque-counterbalancing-system on each of the above fixed-wings that offsets the reaction torque aggressively.

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